



### ES Rectangle . RS 10.4~49.4W

LED Module maximum  
operating temperature(Tc) <105°C

BXRA-xxx0800/0950/1100 (10.4W)  
BXRA-xxx1200/1350/1600 (14.8W)  
BXRA-xxx2000/1350/2600 (25.9W)  
BXRA-xxx3500/4000/4500-F-00 (31.8W)  
BXRA-xxx4000/4500/5300-H-00 (49.4W)

### CL-L340 47.3W

LED Module maximum  
operating temperature(Tc) <100°C

CL-L340-MC41N1-C1 (47.3W)  
CL-L340-MC41W1-C (47.3W)  
CL-L340-MC41WW1-C (47.3W)  
CL-L340-MC41L1-C (47.3W)  
CL-L340-MC41L2-C (47.3W)  
CL-L340-C41N-C (47.3W)

### PrevaLED 11.5~51.6W

LED Module maximum  
operating temperature(Tc) <85°C

PL-CORE-Z3-1000 (11.5W)  
PL-CORE-Z3-2000 (21.4W)  
PL-CORE-Z3-3000 (32.5W)  
PL-CORE-Z3-5000 (51.6W)

### Fortimo SLM 23~45W

LED Module maximum  
operating temperature(Tc) <75°C

2000lm G3 (23W)  
3000lm G3 (33W)  
4000lm G3 (45W)  
4500lm G3 (45W)

### TALEXX 21.5~41.0W

LED Module maximum  
operating temperature(Tc) <90°C

STARK-SLE-G3-19-2000-SEL (21.5 W)  
STARK-SLE-G3-19-3000-SEL (32.5 W)  
STARK-SLE-G3-23-3000-SEL (30.0 W)  
STARK-SLE-G3-19-2000-SEL (40.9 W)  
STARK-SLE-G3-23-4000-SEL (41.0 W)

### LUGA Shop 28.8~54.4W

LED Module maximum  
operating temperature(Tc) <85°C

WU-M-461 (28.8W)  
WU-M-462 (42.0W)  
WU-M-464 (54.4W)

| Size : Ø86 x 30.4mm                                                                                                                    | Size : Ø86 x 45.4mm                                                                                                                     | Size : Ø86 x 52.4mm                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| LA001-018A81DY (aluminum colour 5V)<br>LA001-018B81DY (black 5V)<br>LA001-019A81DY (aluminum colour 12V)<br>LA001-019B81DY (black 12V) | LA004-024A83DY (aluminum colour 5V)<br>LA004-024B83DY (black 12V)<br>LA004-025A83DY (aluminum colour 12V)<br>LA004-025B83DY (black 12V) | LA006-006A83DY (aluminum colour 5V)<br>LA006-006B83DY (black 5V)<br>LA006-007A83DY (aluminum colour 12V)<br>LA006-007B83DY (black 12V) |
| Weight (g) 112                                                                                                                         | Weight (g) 194                                                                                                                          | Weight (g) 234                                                                                                                         |
| Fan Speed (RPM) 2200                                                                                                                   | Fan Speed (RPM) 2200                                                                                                                    | Fan Speed (RPM) 2200                                                                                                                   |
| Noise @ 1M , (dB(A)) 17.0                                                                                                              | Noise @ 1M , (dB(A)) 17.0                                                                                                               | Noise @ 1M , (dB(A)) 17.0                                                                                                              |
| Zhaga Zhaga hole : Book3                                                                                                               | Zhaga Zhaga hole : Book3                                                                                                                | Zhaga Zhaga hole : Book3                                                                                                               |



### ES Rectangle RS 85.4W

LED Module maximum operating temperature  
(Tc) <105°C

BXRA-XXX7000/7500/9000-J-00 (85.4W)

| Size : 121 x 92.3 x 66.0 mm |
|-----------------------------|
| LM310-003A99DN              |
| Weight (g) 352              |
| Fan Speed (RPM) 2200        |
| Noise @ 1M , (dB(A)) 17.8   |



### COB 10.9~42.9W

LED Module maximum operating temperature  
(Tc) <100°C

CLL032-1205A5 (10.9W) CLL032-1208A5 (17.4W)  
CLL032-1205A5 (26.8W) CLL032-1208A5 (42.9W)  
CLL032-1206A5 (13.0W) CLL032-1212A5 (26.1W)  
CLL032-1206A5 (32.2W) CLL042-1218A5 (39.1W)

| Size : Ø86 x 40.4mm                                                |
|--------------------------------------------------------------------|
| LA003-014A82DN (aluminum colour 12V)<br>LA003-014B82DN (black 12V) |
| Weight (g) 163                                                     |
| Fan Speed (RPM) 2200                                               |
| Noise @ 1M , (dB(A)) 16.5                                          |



### COB 89.3~177.9W

LED Module maximum operating temperature  
(Tc) <100°C

CLL044-1212 (89.3W)  
CLL044-1812 (134W)  
CLL044-1818 (86.7W)  
CLL044-1818 (128.1W)  
CLL054-1825 (120.4W)  
CLL054-1825 (177.9W)

| Size : 121 x 92.3 x 66.0 mm |
|-----------------------------|
| LM310-001A99DN              |
| Weight (g) 352              |
| Fan Speed (RPM) 2200        |
| Noise @ 1M , (dB(A)) 17.8   |



### Partner GE Lighting Infusion 13.5~40W

LED Module maximum operating temperature  
(Tp) <65°C

Gen3 M1000 Series (13.5W)  
Gen3 M1500 Series (20W)  
Gen3 M2000 Series (27W)  
Gen3 M3000 Series (40W)

| Size : Ø86x40.4mm                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|
| LA003-013A82DY (Aluminum colour 5V)<br>LA003-013B82DY (Black 5V)<br>LA003-012A82DY (Aluminum colour 12V)<br>LA003-012B82DY (Black12V) |
| Weight (g) 163                                                                                                                        |
| Fan Speed (RPM) 2200                                                                                                                  |
| Noise @ 1M , (dB(A)) 16.5                                                                                                             |

| Size : Ø86x57.4mm                                                  |
|--------------------------------------------------------------------|
| LA004-017A83DY (Aluminum colour 12V)<br>LA004-017B83DY (Black 12V) |
| Weight (g) 268                                                     |
| Fan Speed (RPM) 2200                                               |
| Noise @ 1M , (dB(A)) 15.9                                          |

### PHILIPS Fortimo SLM 23~33W

LED Module maximum operating temperature  
(Tc) <75°C

2000lm Gen3 (23W)  
3000lm Gen3 (33W)

| Size : Ø99 x 110mm                |
|-----------------------------------|
| SM203-13002                       |
| Weight (g) 211                    |
| AL1050                            |
| Heat Sink Material ADC10<br>C1100 |
| *1 TDP (W) 23.8                   |
| *2 Thermal Resistance (°C/W) 1.38 |
| ΔT (°C) 32.9                      |
| Zhaga Zhaga hole : Book3          |

\*1 TDP (Thermal Design Power) is for reference only. Actual thermal performance may vary by different applications. Please test it again by using on different applications.

\*2 Thermal resistance is measured from the bottom middle of heat sink in free air without airflow obstructions, with PHILIPS(Fortimo LED SLM 3000 33W/930 L19 G3) LED chip.

## ■ Cooling Fan



### Specifications

| Model No.                               | EF30080S2-E00U-A99  | HA30101V3-E00U-A99  | HA40101V3-E00U-A99  | HA60200V3-E00U-A99  | HA60201V3-E00U-A99  |
|-----------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Fan Dimension (mm)                      | φ 30 x 8            | φ 39.8 x 10.4       | φ 48.9 x 10.6       | φ 84.9 x 20.4       | φ 84.9 x 20.4       |
| Weight (g)                              | 4.3                 | 7.3                 | 11.8                | 30.5                | 30.5                |
| Rated Voltage (V)                       | 3.3 / 5             | 12                  | 12                  | 5                   | 12                  |
| Power Consumption (W)                   | 0.20 / 0.40         | 0.30                | 0.32                | 0.31                | 0.34                |
| Fan Speed (RPM)                         | 4300 / 7000         | 4400                | 3900                | 2300                | 2300                |
| Air Flow (CFM)                          | 1.8 / 3.0           | 1.9                 | 4.5                 | 13                  | 13                  |
| Static Pressure (Inch-H <sub>2</sub> O) | 0.03 / 0.08         | 0.04                | 0.05                | 0.03                | 0.03                |
| Noise @ 1M (dB(A))                      | 3.1 / 17.0          | 10.5                | 13.1                | 17.5                | 17.5                |
| Safety                                  | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE |



### Specifications

| Model No.                               | HA60150V3-E03U-A99  | HA60151V3-E00U-A99  | HA60150V3-E02U-A99  | HA60151V3-E01U-A99  |
|-----------------------------------------|---------------------|---------------------|---------------------|---------------------|
| Fan Dimension (mm)                      | φ 84.9 x 15.4       | φ 84.9 x 15.4       | φ 84.9 x 15.4       | φ 84.9 x 15.4       |
| Weight (g)                              | 29.1                | 29.1                | 27.3                | 27.3                |
| Rated Voltage (V)                       | 5                   | 12                  | 5                   | 12                  |
| Power Consumption (W)                   | 0.26                | 0.28                | 0.40                | 0.34                |
| Fan Speed (RPM)                         | 2300                | 2300                | 2300                | 2300                |
| Air Flow (CFM)                          | 9.7                 | 9.7                 | 13.2                | 13.2                |
| Static Pressure (Inch-H <sub>2</sub> O) | 0.03                | 0.03                | 0.03                | 0.03                |
| Noise @ 1M (dB(A))                      | 15.4                | 15.4                | 16.1                | 16.1                |
| Safety                                  | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE |

## ■ Dustproof & Waterproof Cooling Fan



IP56 Rating



### Specifications

| Model No.                               | GF60151B6-1E00U-AC9 | GF60151B7-1E00U-AC9 | GF60151B8-1E00U-AC9 | GF60151B9-1E00U-AC9 | GF60151B9-1E01U-AC9 |
|-----------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Fan Dimension (mm)                      | 60 x 60 x 15        | 60 x 60 x 15        | 60 x 60 x 15        | 60 x 60 x 15        | φ 84.9 x 15.4       |
| Weight (g)                              | 47.0                | 47.0                | 47.0                | 47.0                | 45.0                |
| Rated Voltage (V)                       | 12                  | 12                  | 12                  | 12                  | 12                  |
| Power Consumption (W)                   | 1.5                 | 0.96                | 0.84                | 0.39                | 0.3                 |
| Fan Speed (RPM)                         | 4500                | 3900                | 3200                | 2300                | 2200                |
| Air Flow (CFM)                          | 21.3                | 18.2                | 14.5                | 10.6                | 9.8                 |
| Static Pressure (Inch-H <sub>2</sub> O) | 0.18                | 0.13                | 0.09                | 0.05                | 0.05                |
| Noise @ 1M (dB(A))                      | 34.5                | 29.8                | 24.9                | 17.1                | 17.1                |
| Safety                                  | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE |



IP68 Rating



### Specifications

| Model No.                               | GF60151B6-1E00U-AE9 | GF60151B7-1E00U-AE9 | GF60151B8-1E00U-AE9 | GF60151B9-1E00U-AE9 | GF60151B9-1E01U-AE9 |
|-----------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Fan Dimension (mm)                      | 60 x 60 x 15        | 60 x 60 x 15        | 60 x 60 x 15        | 60 x 60 x 15        | φ 84.9 x 15.4       |
| Weight (g)                              | 47.0                | 47.0                | 47.0                | 47.0                | 45.0                |
| Rated Voltage (V)                       | 12                  | 12                  | 12                  | 12                  | 12                  |
| Power Consumption (W)                   | 1.56                | 1.26                | 1.08                | 0.54                | 0.48                |
| Fan Speed (RPM)                         | 4500                | 3900                | 3200                | 2300                | 2200                |
| Air Flow (CFM)                          | 21.3                | 18.2                | 14.5                | 10.6                | 9.8                 |
| Static Pressure (Inch-H <sub>2</sub> O) | 0.18                | 0.13                | 0.09                | 0.05                | 0.05                |
| Noise @ 1M (dB(A))                      | 34.5                | 29.8                | 24.9                | 17.1                | 17.1                |
| Safety                                  | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE | UL / CUR / TUV / CE |